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1	21	(multimodal multi-modal) same input and speech same (finger gesture pointing)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:23
2	2	((multimodal multi-modal) same input and speech same (finger gesture pointing)) and 345/862-863,727,716,382/103,255,286,293,311,312.ccls.	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:26
3	0	((((multimodal multi-modal) same input and speech same (finger gesture pointing)) and 345/862-863,727,716,382/103,255,286,293,311,312.ccls.) and camera with (monitoring controlling adjusting orienting aiming redirecting)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:26
4	34632	camera with (monitoring controlling adjusting orienting aiming redirecting)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:27
5	9815	( camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with ( adjusting orienting aiming redirecting)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:27
6	1917	(( camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with ( adjusting orienting aiming redirecting)) and (ptz tilt\$4 pan\$4)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:28
7	21	(( ( camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with ( adjusting orienting aiming redirecting)) and (ptz tilt\$4 pan\$4)) and (speech voice) with input and (gesture motion)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:34
8	0	(( (( camera with (monitoring controlling adjusting orienting aiming redirecting)) and camera with ( adjusting orienting aiming redirecting)) and (ptz tilt\$4 pan\$4)) and (speech voice) with input and (gesture motion)) and (adjusting redirecting ) with camera with response with ( gestur input speech)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:35
9	0	(adjusting redirecting ) with camera with response with ( gesture voice speech) near5 input	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:37
10	0	(adjusting redirecting ) with camera with response with ( gesture voice speech)	USPAT; EPO; JPO; DERWENT; IBM_TDB	2003/09/22 14:37



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[Multimodal Man-Machine Interface for Mission Planning - Medi Marsic \(1998\) \(Correct\)](#)

**Multimodal** Man-Machine Interface for Mission Planning A.

components: ffl force-feedback tactile input and **gesture** recognition Workspace User 1 Fusion Agent also presented. Keywords **Multimodal** interfaces, **speech** recognition, microphonearray, force-feedback  
[www.caip.rutgers.edu/~medi/PUBLICATIONS/aaai.ps](http://www.caip.rutgers.edu/~medi/PUBLICATIONS/aaai.ps)

[Integration of Speech and Gesture for Multimodal.. - Andre Popescu \(Correct\)](#)

Integration of **Speech** and **Gesture** for **Multimodal** Human-Computer Interaction M. Andre 12 V.

Integration of **Speech** and **Gesture** for **Multimodal** Human-Computer Interaction M.

Integration of **Speech** and **Gesture** for **Multimodal** Human-Computer

[www.caip.rutgers.edu/~medi/PUBLICATIONS/cmc98.ps](http://www.caip.rutgers.edu/~medi/PUBLICATIONS/cmc98.ps)

[Gestural Interface to a Visual Computing Environment for.. - Vladimir Pavlovic \(1996\) \(Correct\) \(4 citations\)](#)

and the tasks to be done [1]We explore this **multimodal** nature of HCI involved in manipulating virtual

This paper describes the use of visual hand **gesture** analysis enhanced with **speech** recognition for

use of visual hand **gesture** analysis enhanced with **speech** recognition for developing a bimodal

[www.ifp.uiuc.edu/~vladimir/papers/icafgr96.ps.gz](http://www.ifp.uiuc.edu/~vladimir/papers/icafgr96.ps.gz)

[Modeling The Interaction Between Speech And Gesture - Cassell, Steedman, Badler, .. \(1994\) \(Correct\)](#)

(8 citations)

of words and graphics in the generation of **multimodal** text [6][21]In storytelling, narrative

Modeling The Interaction Between **Speech** And **Gesture** Justine Cassell Mark Steedman Norm Badler  
[justine.media.mit.edu/people/justine/cogsci94.ps](http://justine.media.mit.edu/people/justine/cogsci94.ps)

[Issues In Measuring The Benefits Of Multimodal Interfaces - Flanagan, Marsic \(1997\) \(Correct\) \(1 citation\)](#)

Issues In Measuring The Benefits Of **Multimodal** Interfaces James Flanagan And Ivan Marsic Caip

and autodirective microphone arrays touch) **gesture** detection and position sensing, force-feedback

in Proc. IEEE Int'l Conf. Acoustics, **Speech**, and Signal Processing (ICASSP'97)Munich,

[www.caip.rutgers.edu/disciple/Publications/icassp-97.ps.gz](http://www.caip.rutgers.edu/disciple/Publications/icassp-97.ps.gz)

[Toward Natural Gesture/Speech HCI: A Case Study of.. - Poddar, Sethi.. \(1998\) \(Correct\) \(2 citations\)](#)

for continuous **gesture** recognition and also for **multimodal** fusion [11]Many different researchers [13,

Toward Natural **Gesture/Speech** HCI: A Case Study of Weather Narration

[www.cs.ucsb.edu/~cs290a/papers/Poddar.pdf](http://www.cs.ucsb.edu/~cs290a/papers/Poddar.pdf)

[Design Principles for Intelligent Environments - Coen \(1998\) \(Correct\) \(15 citations\)](#)

to experiment with different forms of natural, **multimodal** human-computer interaction. We discuss design systems the way they would with other people: via **gesture**, voice, movement, and context. We describe an

It is equipped with numerous computer vision, **speech** and **gesture** recognition systems that connect it  
[www.ai.mit.edu/people/mhcoen/IEsymposium.ps](http://www.ai.mit.edu/people/mhcoen/IEsymposium.ps)

[Unification-based Multimodal Parsing - Johnston \(1998\) \(Correct\) \(7 citations\)](#)

Unification-based **Multimodal** Parsing Michael Johnston Center for Human

of a single spoken phrase with a single **gesture**. We show how the unification-based approach can  
[cse.ogi.edu/pub/johnston/acl98.ps](http://cse.ogi.edu/pub/johnston/acl98.ps)

[Unification-based Multimodal Integration - Johnston, Cohen, McGee, Oviatt.. \(1997\) \(Correct\) \(16 citations\)](#)

Unification-based **Multimodal** Integration Michael Johnston, Philip R. Cohen,

allowing simultaneous input from **speech** and **gesture** recognition. Integration of spoken and gestural  
[cse.ogi.edu/pub/johnston/acl97.ps](http://cse.ogi.edu/pub/johnston/acl97.ps)

Designing Conversational Interfaces With Multimodal.. - Bers, Miller, Makhoul (Correct)  
Designing Conversational Interfaces With **Multimodal** Interaction Josh Bers, Scott Miller, John  
of mobile networked users will use **speech** and **gesture** to enter and retrieve information. Recent  
interfaces to on-line applications through **speech** recognition technology. We have developed a  
[www.nist.gov/speech/proc/darpa98/ps/demo10.ps](http://www.nist.gov/speech/proc/darpa98/ps/demo10.ps)

Real-time Integration of Speech, Gesture, Graphics and Data-base - Ryuichi Oka (1995) (Correct)  
Real-time Integration of **Speech, Gesture, Graphics and Data-base** Ryuichi Oka, Jiro  
Real-time Integration of **Speech, Gesture, Graphics and Data-base** Ryuichi Oka,  
[jisp.cs.nyu.edu/RWC/rwcp/people/yk/rwcp-doc/papers/1995/F-22\\_045.ps.gz](http://jisp.cs.nyu.edu/RWC/rwcp/people/yk/rwcp-doc/papers/1995/F-22_045.ps.gz)

Multimodal Interface Agents and the Architecture of Psychosocial.. - --> (1995) (Correct)  
**Multimodal** Interface Agents and the Architecture of  
5 Manual **Gesture**  
[ftp.media.mit.edu/pub/kris/Proposal.ps.Z](http://ftp.media.mit.edu/pub/kris/Proposal.ps.Z)

The Cooperative Show Actions in TV Conferencing - Zhang Rui Hiroshi (Correct)  
Oviatt and Erik, Olsen "Integration Themes in **Multimodal** Human-Computer Interaction"Proceedings of  
the threemodalities of **speech,camera** control, and **gesture** during TV conferencing. With introducing some  
how participants integrate the threemodalities of **speech,camera** control, and **gesture** during TV  
[www.cs.herts.ac.uk/~comqcln/CT97/zhang.ps](http://www.cs.herts.ac.uk/~comqcln/CT97/zhang.ps)

An Architecture for Multimodal Information Fusion - Shaikh Juth (Correct)  
An Architecture for **Multimodal** Information Fusion A. Shaikh, S. Juth, A.  
components: ffl force-feedback tactile input and **gesture** recognition ffl automatic **speech** recognition  
More natural communication technologies such as **speech**, sight and touch, are capable of freeing  
[www.caip.rutgers.edu/~medl/PUBLICATIONS/pui-final.ps](http://www.caip.rutgers.edu/~medl/PUBLICATIONS/pui-final.ps)

A Framework For Gesture Generation And Interpretation - Cassell (Correct) (5 citations)  
system especially designed for prototyping **multimodal** agents that understand human communicative  
University Press, In Press. A Framework For **Gesture** Generation And Interpretation Justine  
gn.[www.media.mit.edu/groups/gn/publications/gesture\\_wkshop.ps](http://www.media.mit.edu/groups/gn/publications/gesture_wkshop.ps)

Referring in Multimodal Systems: The Importance of.. - Petrelli, De.. (1997) (Correct) (1 citation)  
Referring in **Multimodal** Systems: The Importance of User Expertise and  
combining different modalities (e.g. **speech** and **gestures**)**multimodal** references act as efficient tools!  
space. By combining different modalities (e.g. **speech** and **gestures**)**multimodal** references act as  
[ftp.dfki.uni-sb.de/pub/mm-references/petrelli.ps.gz](http://ftp.dfki.uni-sb.de/pub/mm-references/petrelli.ps.gz)

Recognizing Hand Gestures - James Davis (1994) (Correct) (5 citations)  
Stockholm, Sweden,ed 2-6, 1994. Recognizing Hand **Gestures** James Davis and Mubarak Shah Computer  
vismod.[www.media.mit.edu/~jdavis/OldPapers/eccv.ps.Z](http://www.media.mit.edu/~jdavis/OldPapers/eccv.ps.Z)

A Multimodal Computer-augmented Interface for Distributed.. - Julia, CHEYER (1995) (Correct)  
**A Multimodal** Computer-augmented Interface for Distributed  
a distributed application integrating handwriting, **gesture** and **speech** recognition for a map-based task. Our  
Interface, Agent Architecture, Pen Computing, **Speech** Recognition. ABSTRACT In this paper, we present  
[ftp.speech.sri.com/pub/people/julia/papers/hci95.ps.gz](http://ftp.speech.sri.com/pub/people/julia/papers/hci95.ps.gz)

A Unified Framework for Constructing Multimodal.. - Cheyer, Julia, Martin (1998) (Correct) (1 citation)  
A Unified Framework for Constructing **Multimodal** Experiments and Applications Adam Cheyer 1  
the data stream: Pen input may be interpreted as a **gesture** (e.g.Ex1.5: crossout, Ex1.9: arrow) by one  
Menlo Park, CA 94025 USA cheyer@ai.sri.com, julia@**speech**.sri.com 2 LIMSI-CNRS, BP 133, 91403 Orsay  
[ftp.speech.sri.com/pub/people/julia/papers/cmc98-1.ps.gz](http://ftp.speech.sri.com/pub/people/julia/papers/cmc98-1.ps.gz)

Word Learning In A Multimodal Environment - Roy, Pentland (1998) (Correct) (1 citation)  
Word Learning In A **Multimodal** Environment Deb Roy And Alex Pentland Mit  
using natural modalities including **speech** and **gesture**. A problem with current **multimodal** interfaces is  
with machines using natural modalities including **speech** and **gesture**. A problem with current **multimodal**  
dkroy.[www.media.mit.edu/people/dkroy/papers/Postscript/icassp98.ps](http://www.media.mit.edu/people/dkroy/papers/Postscript/icassp98.ps)

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